

In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) An agitation apparatus for a cleaning appliance comprising ~~generating means for a wave generator~~ configured for generating alternating pressure waves, a first fluid flow path with [[an]] ~~a~~ first inlet/outlet port and a second fluid flow path with [[an]] ~~a~~ second inlet/outlet port, the area adjacent ~~first and second~~ the inlet/outlet ports forming an agitation region, wherein the ~~generating means~~ wave generator is arranged to generate a first alternating pressure wave along the first fluid flow path and a second alternating pressure wave along the second fluid flow path, the first and second pressure waves being substantially in an anti-phase relationship with one another.
2. (Original) An agitation apparatus according to claim 1 wherein each flow path comprises a cavity.
3. (Original) An agitation apparatus according to claim 2 wherein the cavity is a resonating cavity.
4. (Currently Amended) An agitation apparatus according to claim 2 or 3 wherein the cavity in each flow path is of the same volume.
5. (Currently Amended) An agitation apparatus according to ~~any one of the preceding claims~~ claim 1, 2, 3 or 4 wherein the cavity is directly adjacent to the ~~generating means~~ wave generator.
6. (Currently Amended) An agitation apparatus according to any one of claims 2 to [[5]] 4 wherein each of the flow paths ~~consists of~~ includes a cavity with a port extending directly from it.
7. (Currently Amended) An agitation apparatus according to ~~any one of claims 1 to 4~~ claim 1, 2, 3 or 4 wherein the cavity is located away from the ~~generating means~~ wave generator and is joined to the ~~generating means~~ wave generator by a duct.

8. (Currently Amended) An agitation apparatus according to ~~any one of the preceding claims~~ claim 1, 2, 3 or 4 wherein the generating means wave generator comprises a diaphragm, a first side of the diaphragm communicating with the first flow path and a second side of the diaphragm communicating with the second flow path whereby to generate the first and second alternating pressure waves.

9. (Currently Amended) An agitation apparatus according to claim 8 wherein the generating means wave generator further comprises a driver for driving the diaphragm and wherein the driver is housed within one of the flow paths.

10. (Currently Amended) An agitation apparatus according to claim 8 wherein the generating means wave generator further comprises two drivers for driving the diaphragm, and wherein the drivers are mounted on each side of the diaphragm, a first of the drivers being housed in the first flow path and a second of the drivers being housed within the second flow path.

11. (Currently Amended) An agitation apparatus according to ~~any one of claims 1 to 7~~ claim 1, 2, 3 or 4 wherein the generating means wave generator comprises two diaphragms, a first of the diaphragms communicating with the first flow path and the second of the diaphragms communicating with the second flow path, and a driver for driving the diaphragms which is positioned between the diaphragms.

12. (Currently Amended) An agitation apparatus according to ~~any one of the preceding claims~~ claim 1, 2, 3 or 4 wherein the generating means wave generator comprise a coil and a magnet, one of the coil or magnet being movable with respect to the other, the coil receiving an alternating signal for energising energizing the coil.

13. (Original) An agitation apparatus according to claim 12 wherein the coil receives a signal at the frequency of the mains supply.

14. (Original) An agitation apparatus according to claim 12 further comprising a signal source for generating an alternating signal for supplying to the coil.

15. (Currently Amended) An agitation apparatus according to ~~any one of claims~~ claim
12 to 14 wherein the ~~generating means~~ wave generator comprises a loudspeaker.

16. (Currently Amended) An agitation apparatus according to ~~any one of claims 1 to 11~~
claim 1, 2, 3 or 4 wherein the ~~generating means~~ wave generator is driven by airflow.

17. (Currently Amended) An agitation apparatus according to claim 16 further comprising a turbine for positioning in an airflow path to the vacuum cleaner and a coupling for coupling the output of the turbine to the ~~generating means~~ wave generator.

18. (Currently Amended) An agitation apparatus according to ~~any one of the preceding~~
~~claims~~ claim 1, 2, 3 or 4 wherein the ~~generating means~~ wave generator generates a pressure wave with a frequency in the range 0-200Hz.

19. (Currently Amended) An agitation apparatus according to claim 18 wherein the frequency of operation of the ~~generating means~~ wave generator is variable.

20. (Currently Amended) An agitation apparatus according to claim 19 wherein the frequency of the ~~generating means~~ wave generator is manually adjustable by a user of the apparatus.

21. (Currently Amended) An agitation apparatus according to claim 19 further comprising ~~detection means~~ a detector for detecting the type of floor surface and wherein the frequency of operation of the ~~generating means~~ wave generator is variable according to the detected type of floor surface.

22. (Currently Amended) A cleaning head comprising a housing having a sole plate for travelling across a surface and an agitation apparatus according to ~~any one of the preceding~~
~~claims~~ claim 1, 2, 3 or 4.

23. (Original) A cleaning head according to claim 22 in the form of a cleaning head for a vacuum cleaner, wherein the housing is a suction housing having a suction outlet for connecting to a source of suction and the ports of the agitation apparatus are spaced apart along the housing.

24. (Currently Amended) A cleaning head according to claim 22 or 23 wherein the ports are directed downwardly towards the sole plate.

25. (Currently Amended) A cleaning head according to ~~any one of claims~~ claim 22 to 24 wherein the ports are inclined with respect to the sole plate of the cleaning head.

26. (Currently Amended) A cleaning head according to ~~any one of claims~~ claim 22 to 25, comprising a plurality of the agitation apparatus.

27. (Original) A cleaning head according to claim 26 wherein the agitation apparatus are spaced along the longitudinal axis of the cleaning head.

28. (Currently Amended) A cleaning head according to ~~any one of claims~~ claim 22 to 27 in the form of a tool for fitting to a wand.

29. (Currently Amended) A vacuum cleaner comprising a main body and a cleaning head, wherein part of the agitation apparatus according to ~~any one of claims~~ 1 to claim 21 is housed in or on the main body of the vacuum cleaner and ducting connects the part of the agitation apparatus in or on the main body to that part of the agitation apparatus on the cleaning head.

30. (Currently Amended) An agitation apparatus as claimed in ~~any one of claims~~ 1 to claim 21 for use with a vacuum cleaner having a cleaning head, wherein the inlet/outlet ports join the flow paths to the space within the cleaning head.

31. (Canceled)

32. (New) A vacuum cleaner comprising a main body and the cleaning head according to claim 26, wherein part of the agitation apparatus is housed in or on the main body of the vacuum cleaner and ducting connects the part of the agitation apparatus in or on the main body to that part of the agitation apparatus on the cleaning head.